S RATON
.M.
MAWSON

0040

①

1973

INDEX

Page 1186 **Subject**

1) Mt [illegible] platform granite moraine [illegible] of whole
[illegible] snow [illegible] [redacted] 3.45 p.m. [illegible] ·8 F
70% humidity 749.58

2) 840.22 mb.
NE end in ice at edge of moraine (S side of moraine). By first large boulder on edge going towards cliffs.

3) N hill on Mt Mather [illegible] of Summit

4) Ice N end of Mather near cliffs & moraine

5) Long NW spur of Menzies 150 m from foot of cliffs at SE end (NE side of)

6) next spur to E Summit at NW end of ridge. 150 m SE of saddle [illegible] cliff.

Jan

2 3 4 5 6 7 8 ~~[illegible]~~

10, 11, 12, 13, 14, 15,

17, (19) 20,

23, 24, 25 ~~[illegible]~~ + 1 day

1 2

2 [illegible]
3
2 [illegible]

13 7.3

1) Sun 11th

Plane ticket, accom — meet in Delhi?

Ring Art. [illegible]

2) Projector + video

3) Hinge etc.

4) Buy film CT18 36 exp.

Philips Ridge 6750 6250

2205 7 ? calc silicate

Evans Island

6735 6250

2208-11 Fine [illegible] porphyritic
[illegible] [illegible] [illegible]

2212 2-4 [illegible] fine [illegible] dyke
which cuts the [illegible]
[illegible]

2213-5 Coarse porphyritic
[illegible]

2216 Garnet [illegible] [illegible]
bed [illegible] [illegible]

comming
comies

2194 / 2195   2197 / 2198

Low Tongue 21/2/73

6735 6200

2193–6 Garnet cordierite sillimanite gneiss

Low Peak W of Mt Coolies 6750 6230

2197–99 Coarse grained white. ~~[illegible]~~ augen charnockitic garnet gneiss

2200 charnockitic fine grained garnet gneiss

2201 # White granitic rock (fine grained) with garnet

2202 Pink ditto (appears to intrude along

2203 Coarse grained intermediate charnockite

2204 Dense charnockite (with biotite) ~~[illegible]~~ is slightly discordant to gneiss but banded and deformed

6740 6225

Forbesglamer 20/2/73

2178-86 Garnet cordierite gneiss
other ?2187 mafic cordierite gneiss
2188 ?~~quartzite~~ charnockite
2189 Garnet cordierite gneiss
with cu staining
2151 2190-92 Leucocratic garnet
gneiss (cf [illegible] & [illegible]
Garnet gneiss but the latter
may well be [illegible]

6725 6040

W. Campbell Head 15/2/73

2036,7 Leucocratic garnet gneiss
2038 Banded garnet gneiss
2039,40 Grey, fine grained garnet gneiss
2041-3 Mafic garnet gneiss
2044,5 Basic charnockite
2046 Deformed garnet gneiss

Taylor Rookery 6730 6050

2047-50 } Garnet gneiss
2170,1 }
2172,3 melanocratic biotite (?ar) gneiss

Falla Bluff 6735 6130

2174 Mafic charnockite
2175-7 fine grained acid charnockite

2176 2179 2181 2182 2185
2177 2180 2184 2186

Soullen [illegible] 6645E 6745 S ([illegible])

2020 Acid chromitite
2021 [illegible] chromitite
2022 Chromitite [illegible] bands
2023 Leucocratic chromitite
2024 Chromitite
2025 Grey banded gneiss
2026 Banded chromitite
2027 Brown chromitite
2028 Pure chromitite (band [illegible])
2029,30 Pink leucocratic gneiss
(rare garnet)
2031-3 Leucocratic garnet gneiss
2034 Grey banded gneiss
2035 [illegible] [illegible] basalt dyke

13

Murray Headland [illegible] 18/2

Main Pit 6655E 67455

20008- 5 Garnet gneiss
2006 Base garnet rich bed
2007 Pale garnet gneiss
2008,9 Garnet gneiss
6650E 67455

NW side of Smallen outcrop

2010-2 Garnet gneiss
2013 Leucocratic garnet gneiss
2014 major garnet gneiss
2015-8 major channel [illegible]
2019 Acid channel [illegible]

Σ165,6 | more mafic inclusions

2167 ? calc silicate pod

16/2

Mawson Rock

6735 6255

Cosmic Ray Area

2150, 51 Coarse grained charnockite
2152 More mafic charnockite
2153 Fine grained charnockite

Head of Harbour
✓ 2154 Banded inclusion
2155 Coarse grained charnockite

West Arm

2156-^{7}8 ✓ Coarse grained charnockite
✓ 2159 Fine grained, banded
?shear zone or inclusion
2160 mafic inclusion

East Arm
2161 Coarse charnockite
2162-4 Fine grained charnockite inclusion

Sundry Samples

1997 . Staurolite schist from Edwards Pillar

1998 , 9 Ironstone from Mt Ruker

2000 A Calcareous metasediment; near Ironstone locality on Ruker

15

Poulton Mtn 6805 6305

1991-2 Coarse grained acid charnockite

Shark Peak 6805 6240

1993-4 even- medium grained charnockite

Mt Twintop 6805 6225

1995 Acid charnockite (fine grained)
1996 Basic charnockite

Treol Peak

6250 6255

1983 ~~[illegible]~~ ?calc silicate

1984-85 Fine grained garnet - biotite - pyr[illegible]de containing inclusions in coarse grained pegmatitic garnet gneiss. The inclusions are partly of quartzite & are strongly folded

1986 ?Calc silicate "pod"

#Felsen Nbk

6305 6250

1987-1988 Coarse grained acid charnockite

[illegible] Peak

6325 6750

1989-90 Coarse grained acid charnockite

16

N. end of David Range

Coarse grained, porphyritic charnockite
1969–71 Charnockite

6235 · 67 45

Lucas ntk

6210
1972 Leucocratic gneiss 6750
1973–6 Garnet gneiss
1977 Sillimanite – biotite gneiss
1978 Pseudo tachylite
1979 Garnet ? cordierite gneiss

Gap ntk

6230 6755

1980 Leucocratic garnet gneiss
1981 Leucocratic garnet gneiss
(augen gneiss)
1982 major band as above (with hypersthene)

6300 6740

W. Side of Mt Henderson 14/2/77

1956-8 [illegible] Acid garnet gneiss
1959-60 Fine grained garnet gneiss
(? quartz rich)
1961-2 Charnockitic garnet biotite
gneiss (coarse grained porphyro-
blastic)

Painted Peak 6250 6745

1963-4 Garnet gneiss
1965 Coarse grained biotite granite
(? charnockitic)
1966-7 Calc silicate
1968 Leucocratic garnet gneiss

Moore Pyramid 7/2/73

7020 6510

1776-22 Garnet biotite gneiss

Mt [illegible]

70206515

1783-6 Basic Charnockite
1787-92 Acid charnockite
1793-4 Leucocratic gneiss
1795-6 garnet gneiss
1797 Garnet biotite gneiss (major)
1798 marble
1799 ? serpentine
1800 Pyroxenite with ? actinolite
1951 ? Diopside rock
1952 Diopside gneiss
1953,4 ? Diopside gneiss
1955 Biotite gneiss

Lineation 45° ~~[illegible]~~ east (true)
Foliation 80° south (true)

7018 656

Bond Ridge 6/2/73

Mostly garnet biotite gneiss, but much hornblende gneiss / amphibolite and pegmatite. The rocks are migmatite.

1770 Garnet biotite gneiss
1771 Acid garnet biotite gneiss
1772 Acid biotite gneiss
1773 Garnet biotite gneiss
1774 Biotite gneiss
1775 Biotite gneiss

NW tip Mt Bechervaie

7010 · 6450

Mostly garnet gneiss varying from leucocratic to moderately biotitic. V. migmatitic – pegmatitic bands etc.

1764, 5 Leucocratic garnet gneiss

1766 Biotite garnet gneiss

1767, 8 More biotitic garnet gneiss

7010 6540

W tip of the Stalker

Garnet biotite gneiss similar to above. Some pegmatite, some ultramafic bands probably contain pyroxene

1769 Biotite garnet gneiss

Northern PCM 5/2/73.

7025 6555

Northern side of Mt. Gardner

Charnockite. Massive but strongly deformed acid gneiss grading into dark basic charnockite. Some v. massive, leucocratic garnet gneiss

1752,3 Acid gneiss
1754 Leucocratic garnet gneiss
1755-7 Basic charnockite

7030 6500

SE tip of Crohn Massif

Granite pink, highly coarse grained ?including basic charnockite xenolith (partly pegmatitic veins)

1758 A Granite
1760 Acid gneiss ([illegible])
1761-3 Grd to basic charnockite

19 Fisher Massif

N. Trig point

7125
1597 Grey granite 6755
1598 Mafic xenolith

S. tip
6730 7135
Steeply dipping sediments (~WNW 45-80°)
including much marble
1599 Green calcareous sediment
1600 Slaty sediment
1751 White marble

McLeod Massif (Fox Ridge :— big peak) 2/2/73

7045 6755

Red granite, foliated in part
Biotite appears to be chloritized

1593. Red biotite (? chlorite) granite

Manning Massif : SW Corner

7045 6740

Grey basalt, vesicular in part
(intrusive or extrusive? — possibly the latter)
? overlies leucocratic quartzofeldspathic gneiss (some garnet)

1594	Basalt
1595	Vesicular Basalt
1596	Leucocratic gneiss

Overlain by staurolite schist
with v. large staurolite (up to 8 cm)
Dip: ~060° (mag) 40°

1587 staurolite schist (3 pieces)
1588,9 Garnet biotite schist (coarse grained)
1590-2 Garnet biotite ± amphibolite schist
(fine grained)

Barkell Platform - trig point

72 406810

Grey biotite gneiss + some amphibolite (hb). Grey granite (pink); white to pale pink pegmatite (biotite).

1584 Sl. foliated grey biotite granite
1585 Grey biotite gneiss

Mt. Stinear. W side, just N of Edwards Pillar

7305 6620

1586 Biotite ?anthophyllite granulite.

½ – 2/3 of way from Edward Pillar to S end of Stinear

6615 7305

Mostly grey biotite schists with randomly orientated biotite and ?actinolite. Some garnet. Mafic layers rich in garnet biotite & amphibole.

7235 6805

(Similar to locality to south)
Much v. massive and pale grey gneiss with diffuse banding & numerous pleats, tight folds
Thin biotite rich bands in this contain garnet. Some band seen to be rather quartz rich and may be rusty weathering
Some gneisses are rich in ? diopside and may be calc-silicate
Other massive bands contain garnet ± ? sillimanite ± ? cordierite
Garnet, quartz

1564 Basic granulite (much a. pitted?)
1565-70 Basic granulite (+ ? pegmatite)
1571,2 Acid garnet biotite gneiss
1573 Leucocratic garnet biotite gneiss
1574,5 Garnet biotite gneiss
1576,7 Garnet ? sill ? cord gneiss
× 1578-81 ? Diopside gneiss
· 1582,3 Garnet, quartz, ? diopside gneiss
Dip NNW-NW at ~ [illegible] mod steeply 's

The pegmatites contain mostly biotite and generally pink

1557-9 Acid biotite gneiss
1560 Granite
1561-2 Amphibolite (? granulite)
1563 Coarse grained amphibole / feldspar rock with brownish red mineral

The gneiss is partly porphyroblastic

Centre of northern feature on "K"

Mawson Esc Nth
Tie Run 2
0013

7235 6805

granulites. ?1/2 pyroxene ± amphibole basic granulites. Some ?hypersthene in pegmatites (thin ? subconcordant to cross-cutting). Larger X cutting pegs contain mostly biotite and garnet. Pegmatites, massive leucocratic gneiss also contains biotite and garnet.
Other interbanded rocks include finely banded, acid garnet, biotite gneiss

(SE "K")

Mawson Escarpment ?"K" 1/2/73

Mawson Esc Nth R 14/0013
R.12/0017

~6 kms SSE of [illegible] Camp
on Barkell Platform 72 45 68 25

Migmatite. Grey biotite gneiss & amphibolite, intruded by abundant pink pegmatite & [illegible] pink granite (granite / pegmatite are gradational) The gneisses & intrusions are mostly concordant; grey, ~~[illegible]~~ garnet biotite gneiss varies from finely banded & well foliated to leucocratic, coarse-grained (migmatitic) Some garnet is present in some bands. The amphibolite contains biotite (& pyroxene) Dip is ~040° (mag) / 60.
The pegmatite & foliated pegmatite + granite make up ~ 2/3 of the total rock
The dip is not v. consistent & the grey gneiss show signs of folding

7330
6455

SW tip of Rubini

Fairly low grade sediments. Some carbonate-rich — grey & maroon. Some slaty inclusions & conglomeratic bands (quartzite pebbles mostly).
Slaty bands are v. fissile & dark grey

1555 Grey carbonate-rich sed
1556 Slaty sediment.

Dip 80 (mag) 75°

~~7935 64~~15

NW ~~[illegible]~~ Rubini : small "promontory" with sea scoured rocks.

Carbonate rich, greenish sediments

Dip 205 (true) 80°

Just N(?) hump on N. side of [illegible] (two photos)

6440 7335

Similar to above locality.

Granite contains inclusions of carbonate [marble brecciated by quartz veins] & possibly some quartz-rich material. Sheared amphibolite also, some chloritic material

1553 Banded "granite gneiss"

1554 Pos quartz-rich material, or aplite.

Some of the granite is rather migmatitic looking & well banded (1553) & also folded
Some is porphyritic or porphyroblastic
Shears & chlorite veins v. common in some areas

29/1/73

Mt Ruker cliffs on NE side

D330 6440

Granite is weakly foliated (2 flow folds in part) leucocratic greyish "granite" is interbanded with ~~[illegible]~~ leucocratic, partly pegmatitic material. The two rock types seem to be intimately mixed in some localities, contacts are rather diffuse & the leucocratic is often forming schlieren of the more major type. Both types grade into dark pink variety in which the feldspar becomes strongly coloured.

Dark micaceous ~~[illegible]~~ zones and quartz veins may be ~~[illegible]~~ sheared quartz / chlorite / epidote veins; sheared xenoliths or possibly merely sheared altered granite.

1399, 1400, 1551 Granite

1552 Folded basic gneiss from moraine

Photo Crumpston Massif Run 2
7310 6350 0033

[illegible] [illegible] 2 [illegible]
rocks

Similar spotted biotite schist
and calc-schists. ~~[illegible]~~
~~[illegible]~~. Abundant epidote in
schists & veins
1393 Spotted schist.
1394 Epidote ? actually calc schist.
1395 ?? [illegible] (float)

NE tip of Diamond 7310 6355
Dip S ~ 45°
Rocks similar to above
[illegible] calc schists & biotite schist
(good graphite rock)
[illegible] folding [illegible] [illegible]
Obs : [illegible] [illegible]
1396 Biotite schist with [illegible]
[illegible] & [illegible]
1397 Biotite schist
1398 Calc schist (epidote / garnet)

Photo Cumpston Massif R-3, /0097

Mt Dummett

2310 6350

Central part; southern most of 2 conical peaks
Dip 150 (true) 30-70° - fairly tight folds common

Mostly grey spotted biotite schist (large, random biotites) + calc silicate. Epidote v common in some bands. Also a dark green, radiating fibrous mineral (? actinolite) forms distinct bands. V. Pale greenish prismatic crystals with a v. shiny [illegible] cleavage also occur.

1386 Biotite schist

1387-90 Calc schists

Dk green, prismatic amphibole, (in random orientation) common in some bands.

1391 Pale green fibrous actinolite & prismatic actinol

1392 Pink [illegible] [illegible], [illegible]

Binders nunataks : SW of two small
nunataks. 25/1/73 6350 7235

Leucocratic migmatitic biotite gneiss strike SW
dip NW ~70°. Some bands
of amphibolite. Foliation not
well developed in more acid bands
more biotite rich bands are
more fissile. Pegmatites are
quite abundant - biotite ; a little
garnet.

1385 Acid biotite gneiss

W side Wood northern end
of cliffs (low)

GG25 7300

Reddish rather inhomogeneous
biotite "granite". Dense & cutting
pegmatite, some amphibolite
Ill-defined in places.
No obvious relationship with
metaseds

1382, 7. Inhomogeneous biotite "granite"

Mt Russell. Just north of saddle

1381. Staurolite schist (for XRD etc)

7350 6555

[illegible] [illegible] N end near small
mill lake 66 35 7300

Pink pegmatite granite with biotite
muscovite and a little garnet
cutting biotite gneisses. + amphibolite
The gneisses dip steeply ? and
strike across [illegible].

They often appear quartz rich
and contain randomly oriented
? sillimanite.

1377, 8 Biotite gneiss
1379 ? Quartz red gneiss with
biotite ? actinolite & black minerals
1380 Granite
1381 ? Calc silicate (epidote actinolite)

7230 6640

Coastal to main cliff on SE side

Largely well banded pink and grey granitic gneiss. Many pink biotite cross cutting and concordant pegmatites. Some more mafic biotite rich, rusty weathering, hornblende-bearing material.

Some interbanded calc-silicates.

Folded bands v common

1374-6 Banded biotite gneiss

S side about half way along —
top of small feature [two photo

7230 6635

Dip 310 mag / 75
Irregularly banded gneiss,
Hnbl Biotite gneiss — well foliated
in part; also massive and grains
with little biotite. Some
augite-biotite bands. Pelitic, biotite
rich bands contain large garnet
(elongated - deformed) and
sillimanite in some localities
Numerous pale pink or white
pegmatites with biotite.
Some are X cutting, others
concordant

1372 Pink and biotite gneiss
1373 Garnet, sillimanite biotite gneiss

Mt. Johns 24/1/73 66 30 72 30

Cliffs [illegible] [illegible] – 1½ km from W tip

([illegible])

Sf 350 mag 35°

Lin 300 mag 15°

Rather migmatitic grey biotite rich gneiss with cross cutting biotite pegmatite (with a greenish mineral)

Some amphibolite bands

white (with a sl. greenish tinge)

Quartzite is coarse grained well [illegible] [illegible] [illegible] [illegible]

Some lighter gneisses contain abundant garnet & sillimanite

1369 Sill garnet biotite gneiss

1370 Biotite gneiss

1371 Quartzite

Also some semi pelitic rocks

6805 7235

'Centre of Northern outcrop of K

Strike [illegible] [illegible], vertical
Migmatitic biotite gneiss
Various poorly foliated granular
gneiss, and some biotite rich bands,
with sillimanite. Garnet present
in some bands. Some amphibolite
(not seen in obvious dykes)
Numerous pegmatite, X cutting in
part, frequently concordant foliated
One band of grey, even grained
poorly foliated granite gneiss
may be a deformed granular ~~g~~ rock
1364 Garnet sillimanite biotite gneiss
1365 Biotite sillimanite gneiss
1366 Acid biotite gneiss
1367 ? Quartz rich biotite gneiss
1368 Ill foliated granite gneiss

NW Corner of [illegible] peak 2

2240 6805

Strike towards [illegible] peak N of
Completely recrystallized.
Migmatitic biotite rock, feldspathic
veins ; rusty weathering. Some
amphibolite. Massive, poorly
foliated garnet biotite gneiss:
rather pegmatitic. Some X cutting
pegmatites. Many major & minor
folds (latter are tight & possibly
plastic types)
Garnet very abundant in some
bands.
1363 Garnet biotite gneiss

6805 7255

Little amphibolite or dykes seen.
Dip W at 5–10° on NW tops, becoming
to S at steeper angles towards
the S

1359, 60 Biotite augen gneiss
1361 Acid pegmatitic gneiss

K. Cliffs above [illegible] at ?
[illegible] [illegible] peaks. 6805 7245

V migmatitic gneiss. Boudinaged
bands [illegible] contain porphyroblasts
& banded. A little garnet
[illegible] [illegible] even grained
[illegible] [illegible] [illegible] [illegible]
[illegible] with pegmatite veins
[illegible] [illegible] [illegible]. Pink [illegible]
pegmatite [illegible], [illegible]
[illegible] [illegible]. Some in X cutting,
Dips ~S at 20°. (Some).
Some amphibolite is present

1362 Pegmatite [illegible]

SW corner, near top of cliff

6860 7255

Strongly folded metaseds; rather migmatitic. Abundant rusty weathering white biotite pegmatites, but no granite seen.

Mawson Esc Nth
Run 15. 0009.

Rusty garnet gneisses with calc silicate (diopside gneiss, diopside marble etc) with some epidote & ? molybdenite.

1353-4 Garnet biotite gneiss
1355-6 (Rusty) diopside gneiss Hb
1357 Diopside marble & gneiss
1358 Calc silicate.

NW corner top of cliff

Mawson Esc Nth
TreRun 2 0018

Migmatitic gneiss — biotite rich & fairly well foliated and lineated ([illegible] gneiss [illegible]). Acid bands in it poorly foliated and pegmatitic in part. X cutting pegmatite [illegible] rock [illegible] [illegible]

30

"XI" [illegible] (23/1/73)

6825 7255

SE corner: top of cliffs Marmion Geo Ref R15 0007.

Mxd Granite : pegmatite (gradational)
The pegmatites are partly discordant
partly foliated + /or subconcordant.
(hatch pegs. [illegible])
The granites are v. migmatitic:
massive poorly foliated and hard
& rather coarse-grained biotite rich
bands. There is also some amphibolite
Dip on S cliff ~ WNW 30°
Dip on NW side of feature ~ 270 (mag)
30°

1351 Granite ; associated with
pegmatite ; in some places foliated in part
1352 Biotite rich band plag qtz

The late Basement bands often
have abundant porphyroblasts of
white feldspar. A little garnet
is present locally

2144-5 diopside / plag
2146 diopside / garnet
2147 amphibolite

I" NE tip (baro - no photo)

Strike 360 (mag) nearly vertical
Strongly folded

7255 6830

Grey-white gneisses, amphibolites, rarely pebble 'rocks' & calc silicates (garnet, plag, diopside)
Cutting [illegible] garnet white to pink or grey [illegible] granite
abundant pegmatite
2148, 9 (garnet diopside calc-silicate)

Mawson Esc Nth
R.16·0026

Dip impossible in loose area with cliff

2136-7 Garnet biotite gneiss
2138 Biotite gneiss
2139. Leucocratic gneiss
2140-2 Rusty weathering biotite-[illegible],
2143 Garnet biotite quartz rock.

"I" Just ~~[illegible]~~ west of tributary glacier on N. side (two)

7255 6820

Massive pegmatite 5-10 m across cutting rusty-weathering biotite rich gneiss, grey biotite gneiss (similar to previous localities), amphibolite & some calc silicate (diopside? plag ± garnet)

Dip N ~30°. Nelson Grid Ref R 16
0527

Pegs contain white & pink feld,

[illegible]

N. Side of the N of [illegible] glacier
(from photo)

6815 7305

Grey banded biotite gneisses with numerous pink microcline pegs; some fine grained grey to pink granite pegs. [illegible] [illegible] [illegible] of garnet. Gneisses range from v. leucocratic white gneiss with a little biotite to v. biotite rich pelitic types. Garnet is abundant in some bands particularly the [illegible], with [illegible] granulites of [illegible]. Pegs vary from red microcline to [illegible] [illegible]. Segregations are common, boudinage of amphibolite, [illegible] small [illegible] folds. Some major [illegible] [illegible] agmatite. Interbanded [illegible] [illegible] rocks are common. Some are boudinaged. There appear to be basic [illegible], [illegible] with garnet. They are probably pelitic types. Quartz rich rocks are fairly common & often contain garnets & [illegible].

ICICLE

G (cont) 20/1/23
6815 7310

middle of SE side. (photo taken)
Grey biotite gneiss, and greens
& amphibolite cut by white to
pink granite. Also thin
cross cutting brown dykes.
Pegmatites seem to be concordant
folded [illegible] granite. Sometimes
the pegmatite grades into granite

2130-2 Granite
2133 Amphibolite (concordant)
2134 Cross cutting brown
The gneisses have many tight
folds ([illegible] [illegible])
The brown is also in a S
shaped fold

Climbed up to glacier
2135 Grey biotite gneiss

Mawson Escarpment G (Harbour headland)
2km N of SW tip 19/1/73
6800 7340

Granite :- grey, even grained
Includes sediments : pelitic schists
with abundant garnet & staurolite.
Some large granulite : amphibolite
bands. Strike ‖ to cliff.
Dip near vertical. Intrusive
contacts are sharp ; granite is
undeformed. Large xenoliths of
metasediment in cliffs are brecciated
& cut by pegmatite veins.
Grey granite is cut by a white leucocratic
garnetiferous granite - slight flow foliation.
Pegmatites contain microcline muscovite biotite
& some garnet.

2122 - 6 Granite
2127-8 Garnet staurolite biotite gneiss
2129 Garnet biotite gneiss

Lichens collected from near Snow Petrel Nest.
(2 v. young dead chicks, 2 older dead, 11 live
1 small cracked)

The volcanics is massive and
gneiss appear to be interfolded
the contact is fairly sharp; The 'acid'
gneiss is complex by folded of
tight isoclinal & intrafolial folds, etc

6820 7335

NW end of Pt. A ~1½ kms S of)
glacier margin (two photos)

Massive, acid biotite gneiss with pegmatitic banded segregations, & some amphibole/biotite rich bands, similar to above locality. Overlie, apparently conformably (photos) metased. — quartzite & semi-pelitic rocks. The quartzites etc contain bands rich in staurolite. Also garnet, biotite & white mica. No kyanite seen. A pale brownish mineral (? amphibole) is present in one quartzite sample.

2115-8 Staurolite ± garnet ± quartzite
2119 Quartzite with ? epidote
2120 massive, ?l foliated granite
2121 Bz Gnt biotite gneiss

Dip ~80 neg 15-40° The sediments are tightly folded. The massive biotite gneisses contain boudinaged bands as well as X cutting dykes (also cut sheets)

Coarse grained basic dyke: apparently concordant but contacts not seen
2104, 5, 6, 7, 8 (9) (order of collection)
2105 is granophyre

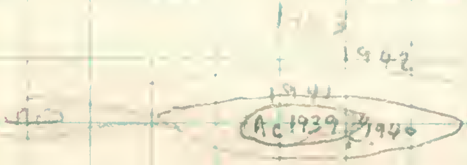
7340 6820

S end of cliffs on W side (two)

Acid biotite gneiss with interbanded amphibolite & X cutting amphibolite
Dip 260 mag/ 35°
2110 Leucocratic granite gneiss
2111, 2 Acid biotite gneiss
2113 Grey biotite gneiss
2114 Finely banded grey acid gneiss.
Some X cutting pegs with mixed qtz, perthite feld & altered biotite. Also concordant pegmatitic bands
The massive foliated acid gneiss grades upwards into grey more mafic biotite gneiss

Within the impure carbonate rocks there
disseminated
is a pod (3D) ?actinolite surrounded
by a zone rich in epidote + grading
into carb/amphibole/mica rich the impure
into ~~[illegible]~~ dark grey schistose
~~[illegible]~~ rock.

6835
7340



1939 ?Actinolite
1940 epidote rich rock
1941 Carb/amphibole/mica/rock
1942 Contact with schist
1943 mica schist
~~[illegible]~~ Impure carb with ?wollastonite
+ ?pyrite
1945,6,7 Impure carb with porphs
of wollastonite(?), in one case, pyrite
1948 9,50 Semi pelitic schist
2101 Epidote schist Psammopelite
2102 ? Carbonate rich schist v little carb
2103 Staurolite schist

Marrom Escarpment (H). Centre of
Southernmost platform   17/1/73 (baro photo)

Metasediments: Large masses of white impure marble with abundant ?wollastonite. Quartz mass ~~[illegible]~~ is surrounded by ?woll.

Marble is strongly deformed, woll tending to occur in distinct bands to some extents. Numerous rusty weathering impure carbonate rocks with abundant rosettes of ?actinolite or other amphibole. (spec)

Dip 250 mag vertical
lin 340 mag 55°

Also quartzite bands (partly garnet) and semi pelitic schists. Some bands are rich in garnet.

Conglomerate is strongly deformed - pebbles streaked out. Some of the semi pelites contain staurolite + garnet.

Marble [illegible]

Base of Cliffs 3km S of glacier

6680 7335

Mostly massive granite gneiss but with some metasedimentary intercalations (concordant) (?? sillimanite ?, some garnet)

1935 massive biotite gneiss
1936 Finely banded biotite gneiss
1937,8 Calc silicate.

√ = analysed (spec at BMR)
rest at Fyshwick

W side · 1½ km S of Glacier

66 40
73 35

Sheared granite with amphibolite bands & dykes. The latter are partly deformed, the sheared ones containing abundant biotite.
Some pelitic & quartzitic bands or xenoliths. (large blocks, up to several hundred metres in length
Dip NE ~15°

✓ 1929 Massive amphibolite
1930 Sheared amphibolite
1931 Porphyritic, undeformed basic
1932 Calc silicate band

66 35 7340

Base of cliffs, 4 kms N of SW tip.

Massive granite gneiss with Xcutting amphibolites & some pegmatites 10–50 cms in width

✓✓ 1933, 4 Foliated granite gneiss (biotite)

Cumpston massif 15/1/73

6635 7340

SW tip

Dip 105 mag /10

massive foliated biotite granite with cross cutting basics. The granite varies from sl. foliated & massive to strongly foliated. The deformation seems to be most intense near the basics. The latter criss-cross in a complex manner, dividing the granite into roughly ellipsoidal masses.

The basics are usually strongly deformed and the contacts with the granite rather diffuse (the two types are interbanded for a short distance. The more foliated basics are rich in biotite (+? diopside). The others are more massive amphibolite

✓ 1926 Granite gneiss

✓ 1927 Amphibolite

1928 Sheared amphibolite.

A little garnet is present locally

The relationship between the acid migmatites & the obviously interbedded material is not entirely clear, but they appear to be interbanded. In one locality acid migmatite invades migmatized banded; in another locality the reverse appears to be true. Pegmatites are similar in both types. At this locality X cutting pegs are relatively small but still fairly numerous. Hornblende is common even in the more acid band, usually in aggregates.

½ way down W cliff

6740 7415

Migmatitic gneisses – strongly folded (photos)

Amphibolite bands are boudinaged & severely broken up: isolated fold noses, boudins, etc.

There may be 2 types of amphibolite; 1 appears to be (?) cl. diop cordal, generally more massive and of a slightly different ~~[illegible]~~ colour. It is folded, however. The acid gneisses contain pinches, streaks & bands of amphibolite & biotite rich material. It is sometimes v. massive & ~~[illegible]~~ almost unfoliated, whereas elsewhere it is significantly foliated, grey or white biotite gneiss. Sillimanite occurs in the bands & some garnet.

1922	Amphibolite (? cl. dio cordar
1923	Amphibolite (interbanded) (with diopside?)
1924	Massive acid band
1925	Acid biotite gneiss

6740 7415

NW tip [illegible]

Acid biotite gneiss
Dip 060(ing) 45°
X cutting pegs with mica, but
a little garnet
Grey, fairly acid, well foliated
biotite gneiss of acid leucocratic,
coarser grained biotite gneiss
and pegmatitic gneiss (banded)
Some amphibolite (cf foliated)
The gneisses are migmatitic
with some conformable pegmatites, folded
boudinaged bodies and rather
diffuse banding
1917-18 Biotite gneiss
1919 Pegmatitic gneiss
1920 Granular gneiss
1921 Amphibolite

Then [illegible] ([illegible] — [illegible]) [illegible] [illegible]

about [illegible] [illegible] [illegible] ([illegible]) [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible]

[illegible]

The ground [illegible] at [illegible] to [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

scale [illegible] [illegible] [illegible] [illegible]

~~[illegible]~~ small scale ([illegible] [illegible] [illegible])

1910/11 Three little [illegible]

1912/13 [illegible] [illegible] [illegible] [illegible]

1914 [illegible] [illegible]

1915 [illegible] [illegible]

1916 Republic [illegible] [illegible] general

([illegible] [illegible] [illegible] independence)

6750 7420

SE corner of Western Thigg

migmatitic gneisses: dark grey biot musc gneisses largely cut by numerous pegmatite veins. The biot gneisses contain abundant sillimanite in certain bands, in the up to several cm in length, but mostly around 5-10mm.

Garnet is present in certain bands, particularly the qtz rich ones. Amphibolites are also present and tend to be boudinaged. Some contain garnet.

A green mineral (? diopside) occurs occasionally, mainly adjacent to pegmatite veins in amphibolite rocks.

There are at least 2 generations of pegmatites: large (several metres wide) & numerous

X cutting pegs are mainly qtz-fsp and some [illegible]

Mt Twigg. SW part . highest peaks.
S. Southern end 14/1/73

Dip 200 (mag) / 15-20° (variable)
Lineation 180° (mag) / 15 S.

Foliated, coarse grained musc/biot ~~schist~~ (or gneiss) – migmatitic
Some quartz rich & acid layers.
Pegmatites fairly numerous, musc v. common, ~~[illegible]~~ biotite fairly common; some tourmaline. No Al silicates noted. Qtz veins not uncommon.
~~[illegible]~~

The massive layers are often v. qtz rich & may represent ~~[illegible]~~ bands of impure quartzite

Middle of NW side

6505 7355

air photo

Leucocratic, white even grained garnet granite intruding garnet, biotite ? sill schist

1905 Garnet granite
1906 Foliated garnet granite (with sillimanite)
1907,8 Garnet, biotite, ? sill schist
1909 Amphibolite

The amphibolite contains some garnet + biotite & the foliation is roughly conformable with that in the garnet schists. It is cut by small veins, ~~and~~ The granite is weakly foliated and contains biotite. Biotite also replaces garnet to some extent.
In some places the ~~g~~ amphibolite is cut by numerous granite veins & resembles agmatite

Mt Acculan — coastal section ([illegible])

air photo
6510 2355

Banded ga sill ?cord gneiss :—
v. massive with leucocratic quartzo-feldspathic bands; ~~[illegible]~~ band of cord gneiss and amphibolite (with garnet & biotite.
Dip 293 (mag) ~~E~~ 50–55°
320° (mag) at further SE.
Biotite pegs present, but not v. abundant here — leucocratic band ~~[illegible]~~ also contains little garnet.
Cross-cutting basic dykes are undeformed
Lineation slightly differing (ie 310° mag).
minor fold plunges steeply
Tightly closed isoclinal folds in folded layers
folds also present.
1748 X cutting basic dyke

1749-50, 1901 ? Cord ga sill gneiss
1902, 3 Leucocratic ? cord gneiss
1904 Amphibolite band

6645 7405

N. tip of ~~½~~ Mt Blake (tarn)
(just NE of "bay") PHOTO
Dip 200(mag) / 15-20°
Lin 250(mag) ~10°
Banded pelitic, semi pelitic & psammitic rocks
1743 Biotite schist
1744 Garnet ?stauro biotite schist
1745 Actinolite schist with qtz/carb/albite
1746 Amphibolite with qtz/carb/chlor vein
1747 Garnet ?stauro biotite schist

placed randomly and [illegible] actinolite in the amphibolite. Biotite and [illegible] in the schists, and garnet in some of these. Impure, rather [illegible] quartzite, also common. Some light grey biotite schists with little garnet. Folding is generally rather gentle, although some monoclinal flexures ( ) noted.

1734 marble
1735 Actinolite / biotite schist
1736 Biotite garnet schist
1737 Actinolite biot garnet schist
1738 Actinolite biotite schist
1739, 40 Tremolite musc schist
1741 Biot musc garnet schist
1742 Garnet rich rock.

[illegible] Blake Nunatak 13/1/73

Cliffs on NW side (middle of cliffs)
(baro reading) photo

Dip 210 (mag) / 15°   6640 9405

Banded quartzites, some pelitic schist (garnet, mica), amphibolite & marble. The marble is strongly deformed (tight folds) & the adjacent amphibolite (actinolite schist) is more boudined with qtz veins between 'blebs' (chlorite in qtz veins)
The marble is slightly [illegible] locally

Cross bedding indicates sed. are right way up. Slaty inclusions are present at some horizons. Near eastern lip conglomerate very similar to that at the Speckled mudstone is present, eg the more slaty rocks. The

ap cleavage is at first more and across the banding, although the banding & cleavage are usually more or less parallel.

retrogressed. The pegmatites are often deformed & have been damaged by the folding. They often contain fractured tourmalines. Amphibolite also present
General dip SW. (200 true ~60°)

The downgraded rocks contain the ~~[illegible]~~ porphyroblasts of feldsp. & qtz & chlorite alteration products

Mt. Ruker
~~N~~E tip 6550 7325
Low grade quartzites & some pelitic micas Dip 220 (true) / 50
1732 Quartzite
1733 Calcareous sediment
These 2 spls are from near the SW [illegible] of the cliffs on the SE side. The rocks here are massive, generally evenly dipping quartzites with some ?calcareous

Mt. Bird central peak (summit) (Iharo)

12/1/73

Dip ∠ 35° (true) ~25°

Many pegmatites (conformable), with tourmaline and biotite. Biotite-rich bands are veined by pegmatite and quartz veins. There are some sedimentary bands, including impure quartzite and abundant amphibolite. Some of the latter is sheared, but most is massive and very coarse grained. It is relatively rich in plag locally. Toward the south, pegmatites become more abundant and the rocks appear similar to those of Legar Ridge

NE face area, NW corner of [illegible] glacier (Iharo photo)

Pelitic schists & psammites, strongly foliated and often migmatitic, with numerous pegmatites (tourmaline, biotite, muscovite) & qtz veins. Many of the rocks appear to be

1722 Light grey granite 6445 7335
1723 Sl. pinkish granite

1724 Pink & grey mottled granite
1725 Epidotized granite (with qtz veins)
Granite appears to be epidotized & carbonated
~~[illegible]~~ brecciated by qtz veins) ~~[illegible]~~
1726 V. leucocratic white granite
1727 Dolerite dyke (X cutting
1728 Altered granite w? [illegible] calc-silicate)

6455 7335

Further along cliffs$^{\text{w C}}$:— Interbanded granitic rocks intruded by X-cutting basic dykes. The orange & grey granitic types occur here, as does the leucocratic type.

1730 Granite
1731 Leucocratic granite

Mt Parker

6425 7335

photo for [illegible]

Just W of large valley (stream and with [illegible]) on N. side

Banded ironstones, strike towards [illegible], dip SW at ~ 45-60°.
Folded; ~~[illegible]~~ with major structures + numerous minor, v. tight folds.

1714-20 Banded ironstones

1721 Grey ?siliceous material interbanded with the ironstones

1729 Schist with carbonate rhombs.

Cliffs on N side of E spur (sample of [illegible] [illegible] [illegible])

Granite — bed, even grained biotite granite. The foliation is sheared locally, but mostly undeformed. Mostly grey or nearly white, but extensive alteration (?epidotization) giving rise to pinker ~~[illegible]~~ + greenish varieties.
A few thin veins of biotite pegmatite.

Cliffs on NW side, about 1km(?) SW of above point (bare) 6320 7355

Migmatites: Much pegmatitic material: tourmaline, occasional garnet; rare? beryl biotite, greenish muscovite. ~~[illegible]~~
Pegmatites grade into v. coarse grained, slightly foliated gneiss (deformed pegs)
Some inclusions of banded gneiss; many of biotite schist.
Much amphibolite present, but relationships obscure.

1705-7 mafic, biotite-rich material
1708 Cl. foliated pegmatitic gneiss
1709 Banded gneiss
1710 Biotite gneiss
1711-3 Anthophyllite, actinolite rocks etc

Dip is roughly ∥ to that in the sediments, but may vary (difficult to see)

Keyser Ridge 11/1/73
6325 7355

NE end 300m SW of NE summit (two)

mostly metaseds, striking towards central Bayliss and vertical.
Fine grained, dark grey mica schists, some amphibolite, quartzite, semi pelitic rocks and garnetiferous ?? ironstones.
Much of the remainder of the moraine covered surface consists of white acid, leucocratic biotite gneiss with numerous pegmatites & pegmatitic segregations.

1547, 8	Grey mica schist
1549	Garnetiferous ? ironstone
1550	Rusty quartzite
1701	Foliated amphibolite
1702	Unfoliated amphibolite (? dyke)
1703	White leucocratic biotite gneiss
1704	? Anthophyllite rock (from moraine)

6305

Mt McCauley SW end, NW side. 7310

Grey biotite gneisses - fairly well foliated (similar in general compn to those on E. Bayliss). Many pegmatites (pegs cut granitic veins). Effect of granites on country rocks is small (i.e. post ~~[illegible]~~ immediately post kinematic); no obvious retrogression, contact effects or metasomatic effects. These grey biotite gn. pass upwards into metaseds (still garnet schists etc) without any obvious discontinuity. The biot. gneisses contain ? pelitic bands with greenish mica (but no sillimanite noted).

1546 Amphibolite band

Mt Bayliss: E end   c 310
7325

Augen gneiss (grey biotite gneiss)
dipping 90° NNW (mag) c. 10-15°
(along Bayliss - strike)
Sediment overlies this - ~~dip~~ strike appears
to be similar. Much amphibolite on
(opp. E end of Bayliss') on cliffs
on N side of Mt. Gneisses
cut by a fresh-looking basic
dyke. Also X cutting (slightly
discordant) amphibolites } - sheared
Gneiss near dyke are reddened
(oxidation of Fe in feldspar ?)
Some pegs but not v abundant

1541-2 Grey biotite Augen gneiss
1543 Red " " "
1544 Sheared amphibolite
1545 Mafic dyke

W. spur highest point (dam)

6205
7325

mostly quartzite & some pelitic schist (biotite schist), with amphibolite.

The quartzites contain some biotite, but no kyanite was noted. Some are fairly coarse (grits) with grains up to 2 or 3 mms in diameter.

1536 Biotite schist. (interbanded with quartzites.

1537, 8 Quartzite with dark lenses

1539 Quartzite

1540 Amphibolite

NE tip : Mt Menzies 10/1/73 6210
7325

Central promontory : E tip (baro)
Contorted & folded biotite / garnet schists
Patchy reXlisation with development of
randomly orientated actinolite XLs
Some massive quartzite with random
actinolite & garnet

1532 Actinolite garnet quartzite

1533 Partly reXlised biotite schist
(semi pelitic) with material similar
to 1532

1534 Garnet biotite muscovite schist
with brownish mineral (from boulder
in moraine)

1535 Garnet muscovite schist.

Lineation 010°(M) / 25

Complexly folded quartz veins are common

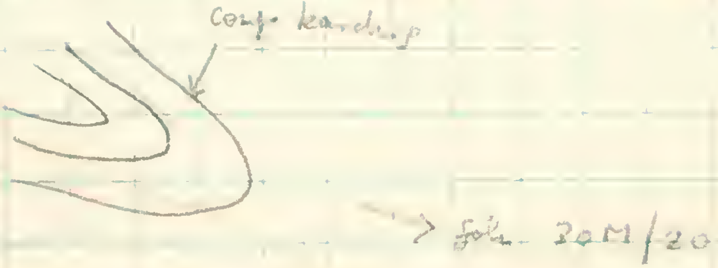
The metased are highly folded, the axes of at least some of the folds appear to be ∥ to the measured lineation.

6130 7325

Next stop to NE   NW end of ridge (~~[illegible]~~)

(two at 200m SE of prominent feature)

Muscovite, biotite garnet schists.
Biotite appears to replace garnet
Mineral [illegible] folding. Cleavage
appears to be oblique to compositional
banding dips 30N / 20° ([illegible]
lineation ditto [illegible])
Some actinolite present locally
1525,6,7 Garnet biot musc schist



Some rusty calcite bands associated with
calc silicates 1528-31. Actinolite & epidote
are ~~is~~ associated with these bands
Dips become steep (~ 70°) in places

Mt. Menzies 8/1/73 6115 7325

Extreme NW tip : SE end of cliffs
(bare) 150 m to NE
Quartzites & semi pelitic schists
(some garnet, much biotite & white mica)
Strong lineation ~70 M of 40°
General dips 30°/30°(M) 60°M/40 50°M/30
but seds are tightly folded
1519 Quartzite
1520, 21 Mica schist
1522 Quartzite with garnet and biotite
1523 Micaschist with black mineral
1524 Green ? in staining

Elongated XS of hble possibly replacing primary mineral are randomly oriented with the foliation plane, & sometimes overgrow the lineation, although in other cases they show a preferred orientation || to the lineation

? chlorite schist with ? biotite, garnet actinolite and a greenish ~~[illegible]~~ ? mica)
Numerous inclusions of quartz and various rock types (mainly schist are present)

1516 Biotite?/or chlorite schist
1517 Similar material with garnet
~~1518~~

1518 Garnet ? biotite schist

On other side of ridge: migmatites cut by amphibolite dykes.
Are these separated from the sediments by a thrust zone? The strike + dip are roughly ∥ to that in the quartzites

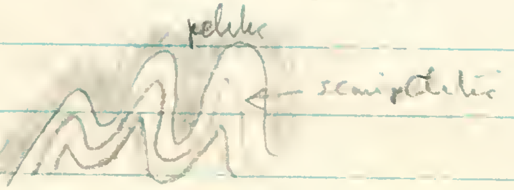
Mt. Mather 7/1/73

N hill. (Baro) 6055 7330

Quartzite with thin layers
rich in kyanite + a brown mineral
Dip 300° true (15°)
lineation 350 10 (true)
Some bands of amphibolite appear
to be concordant
Kyanite does not appear to be
oriented (CHECK SPECS) but lineation is a
[illegible] one

1512-5 Kyanite quartzite:

Cliffs near N end on NW side (Baro)
Highly folded and contorted schists
Tight and isoclinal folds 6055 7330



Pebble schists with [illegible]
[illegible]

in part, although folded with the country rocks.

W platform near summit:- 6310 7310

1337 Biotite muscovite granite

1338 Impure quartzite

1339 " "

1340 Leucocratic garnetiferous granite

1341 Muscovite garnet gneiss

1342 - 8 Various biotite, sillimanite, garnet etc gneiss (metaseds)

1349-50 Amphibolite

1501 Garnet amphibolite

1502 Calc-silicate (epidote/qtz/?garnet)

1508, 9, 10, 11 Garnet/biotite etc gneiss

NE tip 6320 7305

1503 Epidote/actinolite & rock

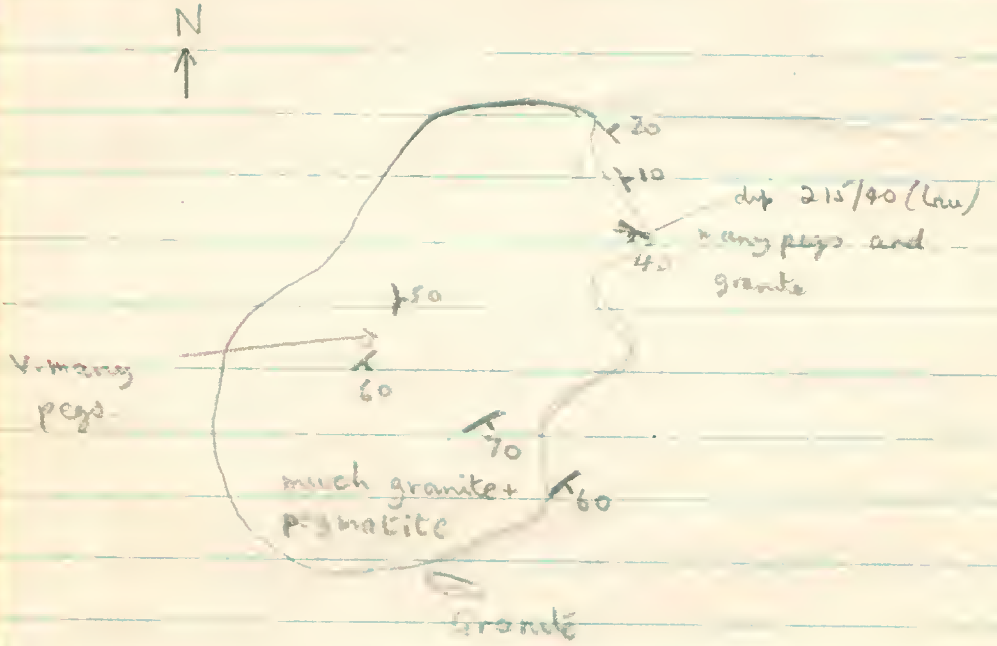
1504, 5 Calc-silicate

1506 Coarse grained feld./qtz/kyanite/green mineral

1507 Amphibolite

Mt. McCauley 6/1/73

W platform near summit.


N
20
10
dip 215/40 (Lu)
many pegs and granite
40
50
V. many pegs
60
70
much granite + pegmatite
60
Granite

Mostly dark grey or brownish metaseds; steeply dipping. Some [illegible] calc silicates (epidote / actinolite etc) In some places sillimanite appears to replace kyanite. Some amphibolites [illegible] may be present. (The [illegible]

[illegible]

Dalton Hills   6855 7230

Dip 220 30°
Leucocratic pink massive probably
intrusive, pink X cutting pegmatite.

1333 Pink biotite gneiss
1334 " " "
1335 More basic gneiss with hblende

Striations on rock surfaces trend
[illegible] NNE 5°) (Clarence Massey/

Clemence Massif (N tip)

6845 7205

1328 Leucocratic garnet gneiss
1329 Well foliated garnet biotite gneiss
1330 Well foliated biotite gneiss
1331 " " " garnet gneiss
1332 Acid biotite gneiss (migmatitic)

Gneiss largely garnetiferous; some pink acid bands; fairly abundant pegs
Dip towards Clem massif @ ~45°

1336 ? Diopside anthophyllite (float)

Clemence Massif

N. Peak

6845 7210

Biotite gneisses dipping at ~45-50° to 330(M) no folds observed. Many pink X cutting pegmatites, with a black mineral (magnetite, ~~[illegible]~~?) & biotite, but muscovite not noted. Gneisses range from fairly biotite rich dark in colour to pinkish leucocratic gneisses. Amphibole present in some of the more mafic bands.

\ ~~1323. Pink pegmatite with black mineral~~

1324 Biotite gneiss

1325 " "

1326 Biotite rich gneiss

1327 Pink, massive, leucocratic gneiss (sheared granite?)

6625 7230

Mt. Johns W. end 5/1/73

1320 Well foliated biotite gneiss
1321 " " " "
(+ ?amphibole) Dip 23→N 45°
1322 Leucocratic, pale coloured granite.

S. end

65 45 7305

1313 Amphibolite (X-cutting from air)
1314 Granite
1315 Staurolite schist (moraine)

Mt Sedden N peak (ridge)

64 50 7305

1316,7 ~~?amphibolite~~ Greenschist
Cubic Xls, weather out (do not seem to be pyrite) Vertical foln. 350°m (strike) Lineation plunges at ~50° to W (true)
1318 Qtz, carbonate, chlorite [illegible]
Qtz/carb veins very common
Some banding of minerals (card [illegible] etc)
1319 Greenschist.

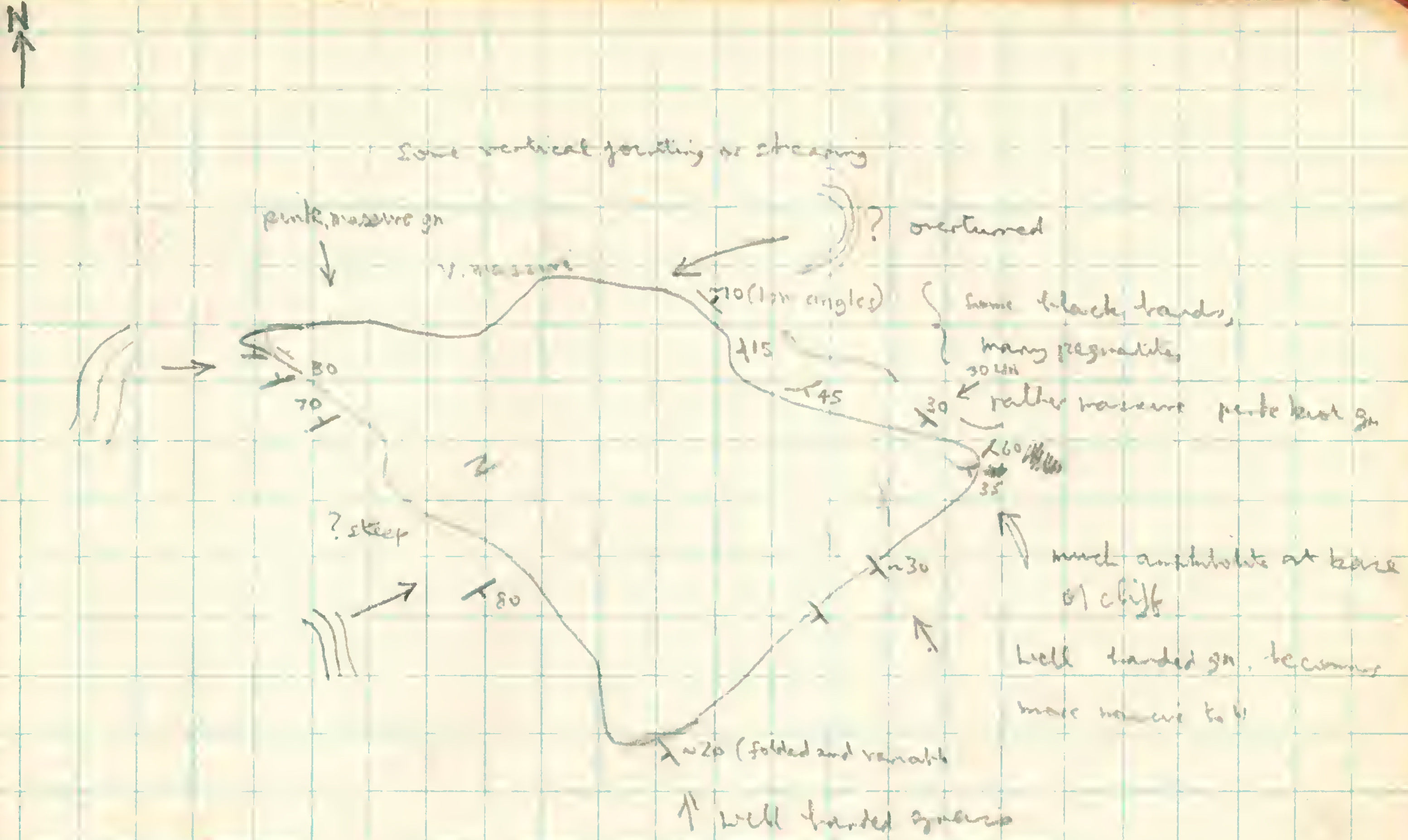
54

Rymill 4/1/73

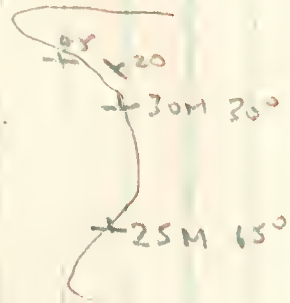
Central area 7300 6550

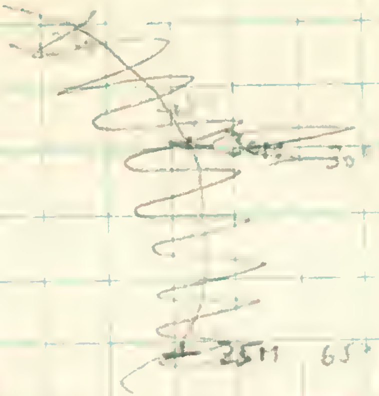
Much quartzite & greenish mica schist
Some amphibolite bands
Dip is steep (nearly vertical) and [illegible]
general strike is ~165(M) lineation ~40°
to W (true)
1304, 5. Amphibolite ~1km S of ice saddle, E
side of Rymill 1305 is schistose (mica XLs)
1306 Green, quartzitic schist
1307 Amphibolite with platy mineral
1308 Greenschist
1309 Lineated quartzite
1310 Amphibolite
1311 ~~P~~ Psammitic schist
1312 Quartzite green
The quartzite is strongly lineated
and has numerous minor folds some

'[illegible]'
A very well developed plati;


N
Some vertical jointing or streaming
? overturned
pink, massive gn
v. massive
70 (1 or angles)
some black bands,
many pegmatites,
15
45
30 W
30
rather massive pink leuc gn
80
70
60
35
? steep
80
much amphibolite at base of cliff
~30
Well banded gn, becomes more massive to W
~20 (folded and variable
well banded gneiss

Shaw Massif


20
30M 20°
25M 15°



Basic bands, die out laterally, are boudinaged or broken up & intruded by numerous pegmatites.
The massive granite gneiss has a well-developed vertical jointing in places

Ulag point

dip 30 M 30°   6645 7200

1144 Leucocratic pink biotite gneiss
1145 Darker, well banded garnetiferous gneiss
1146 Sillimanite biotite garnet gneiss
1147 Epidote, diopside etc
1148 Leucocratic gneiss
1149 Grey biotite gneiss
~~1150~~ 1300 Leucocratic garnet gneiss
1301 " " "
1302,3 Amphibolite

Steep folds in part. Much massive pink, leucocratic gneiss; some amphibolite; grey biotite gneiss (well banded), garnetiferous in part, leucocratic garnet gneiss; minor sillimanite-containing bands; diopside containing rock. Gneisses are structurally complex with numerous minor folds

114.0 Amphibolite

114.1–3 Red garnet biotite gneiss.

Gneisses are migmatites — small pegmatites; banding at times diffuse; isoclinal fold noses etc. Biotite rich bands very fissile. Garnet forms ~~a~~ XLs 2-5 mm across mostly and is not generally very abundant. Foliation planes strongly developed. The biotite rich bands are rusty weathering

Shaw Massif 3/1/73

S tip: 6655 7205

1137-8 Pink acid biotite gneiss
1139 – more biotite rich band

Pink, massive but well-banded acid biotite gneiss. Dip generally to SW or S, but variable; numerous minor folds; axes plunge roughly SW here. Rare garnet.
Some pegmatites (with biotite)

E side 6705 7200

Pink, banded biotite gneiss with garnet. Biotite rich band common. Some basic bands contain amphibole. Minor folds (amplitude ~ 10-50 cm) plunge SW. (The [illegible] dip has same value here)
Some [illegible] pegmatites ; qtz veins

D 61 10 73 00

1131 Semi pelitic grey biotite massive, poorly foliated

1132 Similar, but with epidote rich bands

1133 epidote/actinolite rich layer

Actinolite markedly oriented — coincides with folia (bedding) planes elsewhere completely random

X-cutting aplite: pink, ~5 cms wide Some pegmatite.

Dip 280 (true) ~25°.

I 61 00 72 58

1134, 5 ?Chloritoid etc quartzite
5 cont a little garnet.

1136 Quartzite ? [illegible],
much pyrite, [illegible]

C 61 20 7300

1126-8 Biotite ?chlorite schist
Rather massive - semi ~~pe~~ pelitic
Some psammite with well developed
current bedding.
Semipelite have a new foln developing
at a large angle to the bedding
(see samples) but orientation not
evident. (?chlorite) Bedding dips 100° (true)
at steep to mod. angles 70-30°
Pods (lenses?) coarse garnet
marble evident in semi pelitic rocks
(1129-30); epidote extensively
developed adjacent to these
pods, as well as in qtz veins

B — Eastern Peak (B1) 6130
7305

1123,4 similar to previous sples
Biot schist, rather homogeneous and leucocratic — weakly banded and foliated. much epidote in veins and rocks, also crystals of ? actinolite (1125) (for examination)
Dip 290 (true) 20° – 30°

Western peak (B2) 6125
7305

Similar rock to above
Good current bedding
some quartz veins & epidote —
Dip rather steeper & near vertical
to ~290° (true)

Goodspeed Hills.

2/1/73

"A" 6140 7305

Platform on E side.

1119 Meta conglomerate

1120 " "

Dip ~ 270M/ 15°.

Grey metaconglomerate — mostly pebbles of white & grey quartzite ; a few [illegible] ranging 2 cm to ~ 10-15 cms. somewhat flattened & elongated in places, Schistose matrix, strongly foliated.

Float on Summit

Overlying congl. & dipping ~ 20°-25°

mostly massive biot schist

1121,2 Spotted biot schist — massive & fresh qtz rich (?) lineation 320M/2.
dip 290M/20°

61 55 73 10.

Havers Pike 2/1/73

1115 Biotite musc schist
1116 Ky st bi schist + biot schist
1117 Ky st biot schist
1118 ditto

Dip at low angle towards SW (true)

[illegible] biot-musc schists, with band very rich in staurolite and kyanite.

5540-42

60 E end.

A[illegible] Cresswell 1/1/73

64 20 E 72 45 S

1101 About 300m from [illegible]
in direction of [illegible] in NE (rare garnet) (along strike)
1102 ditto acid biot gneiss; well foliated, no garnet (foln near vertical)
1103, Garnet amphibolite about 50m on
1104 ditto
1105 Finer grained amphibolite; no garnet
About 500m from hut.
1106 Si ga bi schist } feature at start of
1107–9 Bi ga Si gneiss } descent ~700 m from hut
1110 Amphibolite ~200 m down from
1111 Bi musc gneiss
1112 Ga bi gneiss (acid) – it pieces 200 m
1113 Biotite rich, garnetiferous gneiss 800 m
1114 Green quartzite

1101-1150
1301-1350
1501-1550
etc.

1101 - 1150
1301 - 1350

[redacted] [redacted]

1001 - 1201 [illegible]

ANT/SHE/01